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X harald

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inventor
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United States Patent [19]
von der Bey et al.

[11] Patent Number: 4,532,779
[45] Date of Patent: Aug. 6, 1985

[54] DEVICE FOR GENERATING A DRY, COLD AIR FLOW FOR TREATMENT OF RHEUMATIC DISEASES

[75] Inventors: Thomas von der Bey, Ratingen; Detlef Jankowski, Duisburg; Hartmut Schmidt, Meerbusch; Klemens Thoma, Krefeld; Wolfgang Volker, Tönisvorst, all of Fed. Rep. of Germany

[73] Assignee: Messer Griesheim GmbH, Fed. Rep. of Germany

[21] Appl. No.: 573,838

[22] Filed: Jan. 25, 1984

[30] Foreign Application Priority Data

Feb. 17, 1983 [DE] Fed. Rep. of Germany 3305434

[51] Int. Cl.³ F25B 19/00

[52] U.S. Cl. 62/514 R; 62/93

[58] Field of Search 62/93, 514 R

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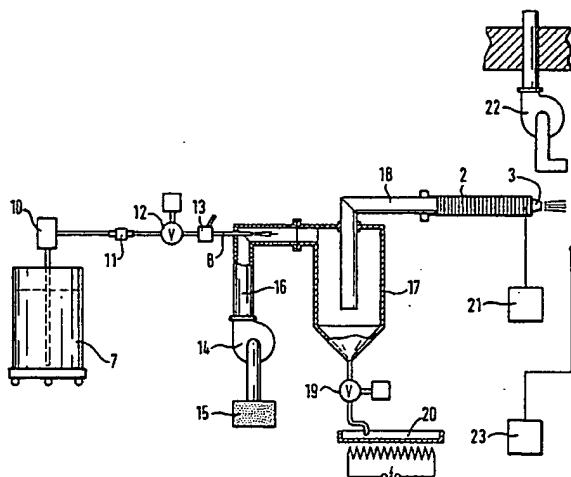
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Primary Examiner—Ronald C. Capossela
Attorney, Agent, or Firm—Connolly and Hutz

[57] ABSTRACT

A device for generating a dry, cold air flow in the treatment of rheumatic diseases includes a cyclone separator as its heat exchange device. The intake line of the cyclone separator is connected to the outlet line of the blower means of a line in which the cryogenic liquefied gas feed ends. The outlet opening of the cyclone generator has attached to it an insulated flexible hose.

2 Claims, 2 Drawing Figures



Set Items Description
S1 1428 AU=(KRUGER T? OR KRUGER, T? OR SCHMIDT H? OR SCHMIDT, H? OR
 WAHLE H? OR WAHLE, H? OR WAHLE G? OR WAHLE, G?)
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 GEORG?) (2N)WAHLE
S3 99303 RESPIR? OR BREATH? OR VENTILAT? OR BREATH? OR CPAP OR PEEP
 OR IPAP
S4 103710 IC=(A62B? OR A61M? OR F16K? OR A61B?)
S5 54 S1:S2 AND S3:S4
S6 39 S5 AND S3
S7 39 IDPAT (sorted in duplicate/non-duplicate order) ← Ø
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 OR IPAP
 S4 456 S1:S2 AND S3
 S5 17 S4 AND (CLEAR? OR CANCEL? OR ERAS? OR DELET? OR OVERWRIT? -
 OR OVERRID? OR REPROGRAM?)
 S6 11 S5 AND PY<2002
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S1	211	AU=(KRUGER T? OR KRUGER, T? OR SCHMIDT H? OR SCHMIDT, H? OR WAHLE H? OR WAHLE, H? OR WAHLE G? OR WAHLE, G?)
S2	74	(TOM OR THOMAS)(2N)KRUGER OR HARTMUT(2N)SCHMIDT OR (HANS OR GEORG?)(2N)WAHLE
S3	530372	RESPIR? OR BREATH? OR VENTILAT? OR BREATH? OR CPAP OR PEEP OR IPAP
S4	7	S1:S2 AND S3
S5	2	S4 AND (CLEAR? OR CANCEL? OR ERAS? OR DELET? OR OVERWRIT? - OR OVERRID? OR REPROGRAM?)
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